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PAPER

APPLICATION NO.	FILING DATE .	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,819	10/01/2003	Werner Nagler	449122062900	8777
75' Kevin R. Spivak	90 03/20/2007	EXAM	EXAMINER	
Morrison & Foers	ster LLP	VIANA DI PRISCO, GERMAN		
Suite 300 1650 Tysons Boulevard			ART UNIT	PAPER NUMBER
McLean, VA 22102			2609	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

03/20/2007

	Application No.	Applicant(s)		
055 - 4 - 4 0	10/674,819	NAGLER, WERNER		
Office Action Summary	Examiner	Art Unit		
	German Viana Di Prisco	2609		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on <u>01 Oc</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro			
Disposition of Claims	•			
4) Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or				
Application Papers	•			
9)☐ The specification is objected to by the Examiner 10)☒ The drawing(s) filed on <u>01 October 2003</u> is/are: Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti 11)☐ The oath or declaration is objected to by the Examiner	a) accepted or b) objected drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)	o □	(DTO 412)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	. 4) Interview Summary Paper No(s)/Mail Da	te		
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 01 October 2003.	5) Notice of Informal Pa	atent Application		

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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35
 U.S.C. 119(a)-(d).

Information Disclosure Statement

2. The information disclosure statement submitted on October 1, 2003 has been considered by the Examiner and made of record in the application file.

Drawings

3. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1-3, 5, and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Schaich et al. (United States Patent No.: 4,763,316).

Consider claim 1 Schaich et al. show and disclose a circuit arrangement for connecting trunk lines via PCM circuits to an exchange-internal switching network, for use in a switching-oriented system, comprising: at least two line and trunk groups that form a redundancy pair, LTG1, LTG2 (figure 2) and have at least one cross-connection, with each line and trunk group having at least one central controller, GP1, GP2 (figure 2); at least one interface to the exchange-internal switching network, GS1 (figure 2); a line circuit area for the PCM circuits, DIU1(figure 2); at least one transformer/framer for synchronization for each PCM circuit (in column 7 lines 1-13 Schaich et al. teach that the switching that takes place in the time division multiplex switching device GS1 is carried out in a known manner; it is inherent in the art that an elastic buffer/framer is used to compensate timing differences in plesiochronous PCM circuits), wherein the circuit arrangement is configured such that a fault occurring in the switching arrangement affects a maximum of two PCM circuits (as shown in figure 2, a fault will affect one PCM circuit); and switching elements, that directly and asynchronously select the PCM circuits individually and one of the two central controllers optionally, are positioned before the transformers/framers (changeover switches in figure 2).

Consider claim 2 and as applied to claim 1 above, Schaich et al. clearly show and disclose changeover switches 1d1 through 2d4 used to switch PCM circuits and

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that change from a normal operating position to an emergency position. It is well understood in the art that solid-state relays are used for this purpose (figure 2 and column 6 lines 12-21).

Consider claim 3, and as applied to claim 1 above, Schaich et al. clearly show and disclose a circuit arrangement for connecting trunk lines via PCM circuits to an exchange-internal switching network, for use in a switching-oriented system wherein control of the upstream switching elements is achieved by the central controllers GP1 and GP2 of the line terminal group, (figure 2).

Consider claim 5, and as applied to claim 1 above, Schaich et al. clearly show and disclose a circuit arrangement for connecting trunk lines via PCM circuits to an exchange-internal switching network, for use in a switching-oriented system wherein each line and trunk group, that together forms a redundancy pair, has as many transformers/framers as the total PCM circuits connected to the redundancy pair (either group switch GS1, GS2 as shown in figure 2 is able to connect all PCM circuits 1u1 to 2u4 connected to the redundancy pair LTG1,LTG2. In column 7 lines 1-13 Schaich et al. further teach that the switching that takes place in the time division multiplex switching devices GS1, GS2 is carried out in a known manner; it is inherent in the art that an elastic buffer/framer is used to compensate timing differences in plesiochronous PCM circuits.)

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Consider claim 7, and as applied to claim 1 above, Schaich et al. clearly show a circuit arrangement for connecting trunk lines via PCM circuits to an exchange-internal switching network, for use in a switching-oriented system wherein one microprocessor, that controls the functions of surrounding components, is arranged at each line and trunk group (group processors GP1, GP2 in figure 2).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schaich et al. (United States Patent No.: 4,763,316) in view of applicant's own admission of prior art (as disclosed on paragraph [0022] in regards to figure 1 of the instant application).

Consider claim 4, and as applied to claim 1 above, Schaich et al. clearly show and disclose a circuit arrangement for connecting trunk lines via PCM circuits to an exchange-internal switching network, for use in a switching-oriented system wherein each line and trunk group, that together forms a redundancy pair.

However Schaich et al. do not disclose that the transformer/framer for synchronization of the PCM circuits is integrated into the central controller.

In the same field of endeavor applicant's admission of prior art clearly shows and discloses a circuit arrangement for connecting trunk lines via PCM circuits to an exchange-internal switching network, for use in a switching-oriented system wherein the transformer/framer 7.4,7.4' for synchronization of the PCM circuits is integrated into the central controller 10,10'(figure 1 and page 10 lines 9-15).

Therefore it would have been obvious to a person of ordinary skill in the art, at the time the invention was made to integrate the transformer/framer for synchronization of the PCM circuits for synchronization of the PCM circuits into the central controller as disclosed by applicant's admission of prior art in the arrangement of Schaich et al. in order to reduce the number of components and reduce circuit size as well as to lower manufacturing costs.

8. Claims 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schaich et al. (United States Patent No.: 4,763,316) in view of Nagler et al. (United States Patent No.: 5,043,978).

Consider claim 6 and as applied to claim 1 above, Schaich et al. clearly show and disclose a circuit arrangement for connecting trunk lines via PCM circuits to an exchange-internal switching network, for use in a switching-oriented system.

However Schaich et al. do not disclose that power supply of the line and trunk group and its surrounding components are integrated into the central controller.

In the same field of endeavor, Nagler et al. clearly show a circuit arrangement for connecting trunk lines via PCM circuits to an exchange-internal switching network, for use in a switching-oriented system wherein each line and trunk group, that together forms a redundancy pair wherein a power supply of the line and trunk group and its surrounding components are integrated into the central controller (power supply unit GV1, clock pulse supply unit, GT1 in figure 1a).

Therefore it would have been obvious to a person of ordinary skill in the art, at the time the invention was made to integrate the power supply of the line and trunk group and its surrounding components into the central controller as disclosed by Nagler et al. in the arrangement of Schaich et al. in order to reduce the number of components and reduce circuit size as well as to lower manufacturing costs.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Seeger et al. (United States Patent No.: 4,905,222) disclose line trunk groups coupled to a double switching matrix. Nagler (United States Patent No.: 5,440,539) discloses a method of controlling an electrical switching device in response

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to a signal configuration of a switching signal. Junge et al. (United States Patent No.:

4,905,220) disclose a circuit for a central control time division multiplex PCM

telecommunications system.

9. Any response to this Office Action should be faxed to (571) 273-8300 or mailed

to:

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to German Viana Di Prisco whose telephone number is (571) 270-1781. The examiner can normally be reached on Monday through Friday 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rafael Perez-Gutierrez can be reached on (571) 272-7915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

German Viana Di Prisco G.V.D.P./gvdp

March 14, 2007

RAFAEL PEREZ-GUTIERREZ
SUPERVISORY PATENT EXAMINER
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